Filing Date If

Appropriate

Translation

NO

YES

Docket Number 295002005901 Application Number 10/647,088 Form PTO-1449 Applicant INFORMATION DISCLOSURE CITATION **BOIME and BEN-MENAHEM** IN AN APPLICATION (Use several sheets if necessary) Filing Date August 21, 2003 Group Art Unit 1645 0 9 2004 Mailing Date: February 6, 2004 **U.S. PATENT DOCUMENTS** Document No. Examiner Ref. Date Name Class **Subclass** Initials No. LS 1. 08/1994 5,338,835 Boime 530 398 2. 01/1998 5,705,484 Thomason 214 LS 3. 05/1995 5,420,247 Gearing et al. 530 350 LS FOREIGN PATENT DOCUMENTS Examiner Ref. Document No. Date Country Class Subclass Initials No. 12/1985 4. LS EP 0 163 406 Europe 5. 05/1998 EP 0 839 831 Europe 6. 05/1985 WO 01959 **PCT** 7. 09/1990 WO 90/09800 **PCT** 8. 11/1991 WO 91/16922 **PCT** 9. 12/1992 WO 92 22568 **PCT** 10. 08/1995 WO 95/22340 **PCT** 11. 02/1996 WO 96/05224 **PCT** 05/1999 12. WO 99/25849 PCT OTHER DOCUMENTS (including author, title, Date, Pertinent Pages, Etc.) Examiner Ref. Title **Initials** No.

Chen and Okayama, "High-Efficiency Transformation of Mammalian Cells by Plasmid DNA", 16. Mol Cell Biol (1987) 7:2745-2752. EXAMINER: (examiner) DATE CONSIDERED:

Bielinska, J Cell Biol (1990) 111:330a (Abstract 1844).

Engineering", Proc Natl Acad Sci (1991) 88:760-764.

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Boime et al., "Synthesis of Genetically Fused Single Chain Analog of Human Chorionic

Campbell et al., "Conversion of Human Choriogonadotropin into a Follitropin by Protein

Gonadotropin: Implications for Drug Design and Structure-Function Relationships." Proceeding of the Symposium: "The Ovary Regulation, Dysfunction and Treatment,"

13.

14.

15.

1106:25-27 (1996).

LS

Ŋ.

Form PTO-1449			Docket Number 295002005901	Application Number 10/647,088			
		ION DISCI OSTIDE CITATION	Applicant				
Land.		ION DISCLOSURE CITATION AN APPLICATION	BOIME and BEN-MENAHEM				
FEB 0 9 7004 R several sheets if necessary)			Filing Date August 21, 2003	Group Art Unit 1645			
E .	3 2004 N		Mailing Date: February 6, 2004				
FEB 19 2004 Reserveral sheets if necessary) Filing Date August 21, 2003 Group Art Unit 1645 Mailing Date: February 6, 2004 OTHER DOCUMENTS (including author, title, Date, Pertinent of Examiner Ref. Title							
Examiner Ref. Title		Title		8			
Initials No.		·					
LS 17.		Chen et al., "The Carboxy-Terminal Region of the Glycoprotein Hormone α-Subunit: Contributions to Receptor Binding and Signaling in Human Chorionic Gonadotropin" <i>Molec Endocrinol</i> (1992) 6:914-919.					
	18.	Dayhoff et al., "A Model of Evolutio Structure (1972) 5:89-99.	nary Change in Proteins" Atla	ns of Protein Sequences and			
	19.	Duijkers et al., "Follicular Fluid Hormone Concentrations After Ovarian Stimulation Using Gonadotropin Preparations with Different FSH/LH ratios. 1. Comparison of an FSH-Dominant and a Purified FSH Preparation," <i>International Journal of Fertility and Women's Medicine (USA)</i> 42(5):306-310 (1997) [abstract only].					
	20.	Erickson et al., "Synthetic α-Subunit Peptides Stimulate Testosterone Production in Vitro by Rat Leydig Cells" <i>Endocrinology</i> (1990) 126:2555-2560.					
	21.	Fares, "Design of a Long Acting Follitropin Agonist by Fusing the C-terminal Sequence of the Chorionic Gonadotropin 3 Subunit to the Follitropin" <i>Proc Natl Acad Sci USA</i> (1992) 89:4304-4308.					
	22.	Kuetmann, "Receptor Binding Regions of hLH and hCG∃-Subunit: Structural and Functional Properties" pgs. 103-117.					
	23.	LaPolt, "Enhanced Stimulation of Follicle Maturation and Ovulatory Potential by Long Acting Follicle-Stimulating Hormone Agonists with Extended Carboxyl-Terminal Peptides", Endocrinology (1992) 131:2514-2520.					
	24.	Lapthorn, ""Crystal Structure of Human Chorionic Gonadotropin" Nature (1994) 369:455-461.					
	25.	Lustbader et al., EDS, Springer Verlag (New York) (1994) 122-134.					
	26.	Matzuk et al., "Effects of Preventing O-glycosylation on the Secretion of Human Chorionic Gonadotropin in Chinese Hamster Ovary Cells", <i>Proc Natl Acad USA</i> (1987) 84:6354-6358.					
	27.	Matzuk et al., "The Glycoprotein α-Subunit is Critical for Secretion and Stability of the Human Thyrotropin ∃-Subunit" <i>Mol Endocrinol</i> (1988) 2:95-100.					
	28.	Matzuk and Boime, "The Role of the Asparagine-linked Oligosaccharides of the α Subunit in the Secretion and Assembly of Human Chorionic Gonadotropin" J Cell Biol (1988) 106:1049-1059.					
	29.	Moyle et al., "Co-Evolution of Ligand-Receptor Paris" Nature (1994) 368:251-255.					
	30.	Patel, "A Clasped Embrace" Nature 369:438-439.					
	31.	Puett et al., "Delineation of Subunit and Receptor Contact Sites by Site-Directed Mutagenesis of hCG3" Glycoprotein Hormones.					
V	32. Sachais et al., "Molecular Basis for the Species Selectivity of the Substance P Antagonist CP-96, 345" Biol Chem (1993) 268:2319.						
EXAMINER:			DATE CONSIDERED:				
EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant							

0.02	,,,,,,	۲-	- / 2
S	heet	3	of '

Form PTO-1449			Docket Number 295002005901	Application Number 10/647,088		
INFQF	MATI	ON DISCLOSURE CITATION	Applicant			
OIPE	NI /	AN APPLICATION .	BOIME and BEN-MENAHEM			
Fro a	50 10	se several sheets if necessary)	Filing Date August 21, 2003	Group Art Unit 1645		
128 0 9 200	K KS		Mailing Date: February 6, 2004			
*		OTHER DO	OCUMENTS (incli	uding author, title, Date, Pertinent Pages, Etc.)		
Examilier	Ref.	Title	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	and dantor, thie, bate, i erinent i ages, over		
Initials	No.					
LS	33.	Wu, H., "Structure of Human Chorionic Gonadotropin at 2.6 A Resolution from MAD analysis of the Selenomethionyl Protein" <i>Structure</i> (1994) 2:545-558.				
	34.	Xiao-Chi et al., "Expression of Hum Gonadotropin from Human but not 5:759-768.	nan Luteinizing Hormone (L Equine, Rat and Ovine Sp	.H) and Chorionic ecies "Endocrinol (1991)		
Yoo et al., "Conversion of Lysine 91 to Methionine or Glutamic Acid in Human Choriogonadotropin α Results in the Loss of cAMP Inducibility" <i>J Biol Chem</i> (1991) 266:17741-17743.						
			•			
		1000				
	-		•			
				· · · · · · · · · · · · · · · · · · ·		
	:					
			,			
			· · · · · · · · · · · · · · · · · · ·			
	•					
 						
				· · · · · · · · · · · · · · · · · · ·		
			•			
EXAMIN	EXAMINER: /Lorraine Spector/		DATE CONSIDERED:	01/24/2007		
EXAMINE conforman	ce and no	I if citation considered, whether or not the citation t considered. Include a copy of this form with no	on conforms with MPEP 609. Draw ext communication to applicant.	a line through the citation if not in		